Performance Data Sheet

RGA5450EXA

General Information

Model	RGA5450EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	1640	1390					
	Watts	251	256					
	Amps	2.36	2.47					
	Lb/h	21.3	18.8					
-10	Btu/h	1950	1720	1510				
	Watts	269	278	289				
	Amps	2.44	2.59	2.70				
	Lb/h	25.0	22.9	21.1				
-5	Btu/h	2240	2030	1850	1670			
	Watts	281	293	309	326			
	Amps	2.49	2.68	2.83	2.97			
	Lb/h	28.5	26.9	25.5	24.2			
0	Btu/h	2530	2340	2180	2020	1830		
	Watts	289	305	324	346	367		
	Amps	2.52	2.74	2.93	3.11	3.28		
	Lb/h	32.0	30.7	29.8	28.8	27.6		
5	Btu/h	2840	2650	2500	2350	2190		
	Watts	294	312	335	360	385		
	Amps	2.53	2.79	3.01	3.22	3.42		
	Lb/h	35.6	34.5	33.9	33.3	32.4		
10	Btu/h	3160	2970	2820	2680	2530	2340	2090
	Watts	296	316	342	370	399	428	452
	Amps	2.52	2.81	3.07	3.30	3.53	3.78	4.04
	Lb/h	39.4	38.5	38.0	37.7	37.1	36.1	34.2
15	Btu/h	3520	3310	3150	3020	2870	2690	2460
	Watts	296	318	346	377	410	442	471
	Amps	2.51	2.82	3.11	3.37	3.63	3.90	4.19
	Lb/h	43.6	42.7	42.3	42.1	41.8	41.0	39.5
20	Btu/h	3910	3690	3510	3360	3210	3040	2810
	Watts	295	318	348	381	417	453	486
	Amps	2.49	2.83	3.13	3.42	3.70	3.99	4.31
	Lb/h	48.2	47.2	46.8	46.7	46.5	46.0	44.7

25	Btu/h	4360	4100	3910	3740	3570	3390	3150
	Watts	293	317	348	384	422	461	498
	Amps	2.47	2.83	3.15	3.46	3.76	4.07	4.41
	Lb/h	53.3	52.1	51.7	51.5	51.4	51.0	49.9
30	Btu/h	4860	4570	4340	4140	3960	3760	3510
	Watts	292	316	348	385	425	466	507
	Amps	2.45	2.82	3.17	3.49	3.81	4.14	4.49
	Lb/h	59.1	57.7	57.0	56.8	56.6	56.2	55.2
35	Btu/h	5440	5100	4830	4590	4380	4150	3890
	Watts	291	316	348	386	428	471	514
	Amps	2.44	2.83	3.18	3.52	3.85	4.20	4.56
	Lb/h	65.7	64.0	63.0	62.6	62.3	61.7	60.7
40	Btu/h	6090	5690	5370	5100	4840	4580	4290
	Watts	292	316	348	387	430	475	520
	Amps	2.44	2.84	3.20	3.55	3.90	4.25	4.63
	Lb/h	73.2	71.0	69.7	69.0	68.4	67.7	66.6
45	Btu/h	6830	6370	5990	5660	5360	5060	4730
	Watts	295	318	350	389	433	479	526
	Amps	2.46	2.86	3.24	3.59	3.94	4.30	4.68
	Lb/h	81.7	79.0	77.2	76.1	75.2	74.3	72.9
50	Btu/h	7670	7140	6690	6300	5940	5590	5210
	Watts	302	323	354	393	437	484	532
	Amps	2.49	2.90	3.28	3.64	3.99	4.36	4.74
	Lb/h	91.3	88.0	85.7	84.1	82.8	81.5	79.8
55	Btu/h	8610	8000	7480	7020	6600	6180	5750
	Watts	312	332	361	399	443	490	540
	Amps	2.56	2.97	3.34	3.70	4.05	4.42	4.81
	Lb/h	102	98.2	95.3	93.0	91.2	89.5	87.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.174868E+03	5.588144E+02	-2.162371E+00	9.524067E+01
C2	8.350227E+01	7.430982E-01	-5.253165E-02	7.567011E-01
C3	-1.470002E+02	-1.025093E+01	1.077557E-01	-1.777065E+00
C4	1.590648E+00	3.443712E-03	1.595718E-04	1.665854E-02
C5	-7.279879E-01	-3.795416E-02	7.019077E-04	-5.816384E-03
C6	1.297549E+00	1.138302E-01	-8.056413E-04	1.678933E-02
C7	1.287808E-02	9.587050E-04	5.764165E-06	1.546746E-04
C8	-1.711908E-02	-8.966940E-04	-6.631235E-06	-1.855837E-04
C9	5.345738E-03	5.570890E-04	1.130090E-09	6.525843E-05
C10	-4.274331E-03	-3.478732E-04	2.377628E-06	-5.567593E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature